

# MULTICHANNEL CONTACTLESS POWER TRANSFER SYSTEM FOR A COMPUTED TOMOGRAPHY SYSTEM

## Abstract

A multichannel, contactless power transfer system includes a primary power inverter disposed on a stationary side of the system, and an auxiliary power inverter disposed on the stationary side of the system. A rotary transformer has a primary side thereof disposed on the stationary side of the system and a secondary side disposed on a rotating side of the system. The rotary transformer is configured to couple primary power from an output of the primary power inverter to a primary power voltage output on the rotating side of the system, and is further configured to couple auxiliary power from an output of the auxiliary power inverter to at least one auxiliary voltage output on the rotating side of the system.